

**REMARKS**

Claims 1-2 and 16-23 are currently pending in the application.  
Claims 3-15 have been canceled without prejudice.

It is respectfully submitted that the application is now in condition  
for allowance, which allowance is respectfully requested.

The Commissioner is authorized to charge any fee or credit any  
overpayment in connection with this communication to our Deposit Account  
No. 11-1449.

Respectfully submitted,

KOHN & ASSOCIATES



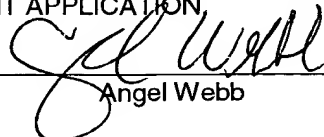
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Dated: July 27, 2001

**CERTIFICATE OF MAILING**

Express Mail Mailing Label No.: EL901882037US  
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I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office To Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, BOX DIVISIONAL PATENT APPLICATION.

  
Angel Webb

0916486-072701

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE SPECIFICATION:**

**CROSS REFERENCE TO RELATED APPLICATIONS**

This application is a divisional of United States Patent Application Serial No. 09/159,626, filed September 24, 1998, which is incorporated herein by reference.

**IN THE CLAIMS:**

16. (New) A anti-microbial adhesion pharmaceutical composition comprising an effective amount of an isolated adhesion inhibitory fraction from *vaccinium* juice and a pharmaceutically acceptable carrier or diluent said isolated fraction having anti-adhesion activity against *H. pylori*.

17. (New) The composition according to claim 1, wherein said isolated fraction is selected from the group consisting assentially of PF-1, PF-2, and NDM.

18. (New) The composition according to claim 1, wherein said isolated fraction is present in a range of 1 $\mu$ g to 10mg per milliliter.

19. (New) A fortified food composition providing antimicrobial-adhesion activity comprising a suitable food carrier and an effective amount of an isolated adhesion inhibitory water extract fraction from *Vaccinium* having

(a) a molecular weight of 14,000;

- (b) anti-adhesion activity against *H.pylori*;
- (c) an elemental analysis of carbon 43-51%, hydrogen 4 - 5%, no nitrogen, no sulfur and no chlorine;
- (d) a nuclear magnetic resonance (NMR) line spectrum as set forth in Figures 2A and 2B;
- (e) an ultraviolet spectrum with an absorption peak at 280 nm in neutral or acidic pH solution which is absent in alkali solutions; and
- (f) an adhesion inhibitory activity against P fimbriated bacteria.

20. (New) The composition as set forth in claim 19 wherein the food carrier is a fruit juice.

21. (New) The composition as set forth in claim 20 wherein the fruit juice is cranberry juice.

22. (New) An adhesion inhibitory fraction from a juice of berries of the *Vaccinium* plant genus exhibiting coaggregation reversal and coaggregation inhibition activity against *H.pylori* isolated by:

- (a) dialyzing the juice extensively against double distilled water using dialysis tubing with a 14,000 molecular weight cut-off;
- (b) lyophilizing the dialysate;
- (c) fractionating the lyophilized dialysate on a polyacrylamide resin column; and
- (d) eluting the fraction from the column with water.

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23. The method of claim 22 wherein the fraction is eluted from the column with ammonia.

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